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Applications of carbonic anhydrase inhibitors and activators in therapy

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#	Paper	IF	Citations
235	Sulfonamide derivatives with protease inhibitory action as anticancer, anti-inflammatory and antiviral agents. <i>Expert Opinion on Therapeutic Patents</i> , 2002 , 12, 1307-1327	6.8	46
234	Carbonic anhydrase activators: human isozyme II is strongly activated by oligopeptides incorporating the carboxyterminal sequence of the bicarbonate anion exchanger AE1. 2002 , 12, 1177-80		60
233	The plasma membrane carbonic anhydrase in murine hepatocytes identified as isozyme XIV. 2002 , 2, 13		32
232	Carbonic anhydrase inhibitors. Preparation of potent sulfonamides inhibitors incorporating bile acid tails. 2002 , 12, 1551-7		18
231	Bile acid derivatives of 5-amino-1,3,4-thiadiazole-2-sulfonamide as new carbonic anhydrase inhibitors: synthesis and investigation of inhibition effects. 2002 , 10, 2561-7		31
230	Crystal analysis of aromatic sulfonamide binding to native and (Zn) ₂ adduct of human carbonic anhydrase I Michigan 1. 2002 , 339, 135-144		9
229	Carbonic anhydrase inhibitors. <i>Medicinal Research Reviews</i> , 2003 , 23, 146-89	14.4	1062
228	Protease inhibitors of the sulfonamide type: anticancer, antiinflammatory, and antiviral agents. <i>Medicinal Research Reviews</i> , 2003 , 23, 535-58	14.4	320
227	Docking studies of sulphamate inhibitors of estrone sulphatase in human carbonic anhydrase II. 2003 , 13, 863-5		37
226	Carbonic anhydrase inhibitors: inhibition of cytosolic isozymes I and II with sulfamide derivatives. 2003 , 13, 837-40		73
225	Carbonic anhydrase inhibitors: SAR and X-ray crystallographic study for the interaction of sugar sulfamates/sulfamides with isozymes I, II and IV. 2003 , 13, 841-5		209
224	Carbonic anhydrase inhibitors: X-ray crystallographic structure of the adduct of human isozyme II with a bis-sulfonamide-two heads are better than one?. 2003 , 13, 2759-63		33
223	Carbonic anhydrase inhibitors: inhibition of human and murine mitochondrial isozymes V with anions. 2003 , 13, 2857-61		44
222	Hydroxyurea is a carbonic anhydrase inhibitor. 2003 , 11, 2241-6		36
221	Carbonic anhydrase inhibitors: inhibition of the tumor-associated isozyme IX with aromatic and heterocyclic sulfonamides. 2003 , 13, 1005-9		176
220	Carbonic anhydrase inhibitors. Inhibition of tumor-associated isozyme IX by halogenosulfanilamide and halogenophenylaminobenzolamide derivatives. 2003 , 46, 2187-96		133
219	Severe psoriasis palmaris et plantaris associated with topical use of dorzolamide. 2003 , 23, 487-9		1

218	Carbonic anhydrase inhibitors: inhibition of transmembrane, tumor-associated isozyme IX, and cytosolic isozymes I and II with aliphatic sulfamates. 2003 , 46, 5471-7		74
217	Carbonic anhydrase inhibitors. Inhibition of cytosolic isozymes I and II and transmembrane, tumor-associated isozyme IX with sulfamates including EMATE also acting as steroid sulfatase inhibitors. 2003 , 46, 2197-204		134
216	Indisulam: an anticancer sulfonamide in clinical development. 2003 , 12, 283-7		146
215	Thermodynamics of binding of Zn ²⁺ to carbonic anhydrase inhibitors. 2003 , 101, 2357-2368		18
214	Carbonic anhydrase inhibitors. inhibition of cytosolic isozymes I and II and transmembrane, cancer-associated isozyme IX with anions. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2003 , 18, 403-6	5.6	53
213	Carbonic anhydrase inhibitors in the treatment and prophylaxis of obesity. <i>Expert Opinion on Therapeutic Patents</i> , 2003 , 13, 1545-1550	6.8	135
212	The in vitro and in vivo inhibitory effects of some sulfonamide derivatives on rainbow trout (<i>Oncorhynchus mykiss</i>) erythrocyte carbonic anhydrase activity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2003 , 18, 371-5	5.6	38
211	Carbonic anhydrase inhibitors. Inhibition of cytosolic isozymes I and II and transmembrane, cancer-associated isozyme IX with lipophilic sulfonamides. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2003 , 18, 333-8	5.6	21
210	Carbonic anhydrase inhibitors: X-ray crystallographic structure of the adduct of human isozyme II with the perfluorobenzoyl analogue of methazolamide. Implications for the drug design of fluorinated inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2003 , 18, 303-8	5.6	47
209	Effects of melatonin on carbonic anhydrase from human erythrocytes in vitro and from rat erythrocytes in vivo. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2004 , 19, 193-7	5.6	97
208	Carbonic anhydrase inhibitors: Schiff [®] bases of aromatic and heterocyclic sulfonamides and their metal complexes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2004 , 19, 263-7	5.6	55
207	Carbonic anhydrases: current state of the art, therapeutic applications and future prospects. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2004 , 19, 199-229	5.6	532
206	Plasmodium falciparum carbonic anhydrase is a possible target for malaria chemotherapy. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2004 , 19, 249-56	5.6	37
205	Carbonic anhydrase inhibitors: E7070, a sulfonamide anticancer agent, potently inhibits cytosolic isozymes I and II, and transmembrane, tumor-associated isozyme IX. 2004 , 14, 217-23		235
204	Carbonic anhydrase inhibitors: X-ray crystallographic structure of the adduct of human isozyme II with EMATE, a dual inhibitor of carbonic anhydrases and steroid sulfatase. 2004 , 14, 231-4		137
203	Carbonic anhydrase inhibitors: inhibition of the tumor-associated isozyme IX with fluorine-containing sulfonamides. The first subnanomolar CA IX inhibitor discovered. 2004 , 14, 2351-6		45
202	Carbonic anhydrase inhibitors. Inhibition of the newly isolated murine isozyme XIII with anions. 2004 , 14, 5435-9		42
201	Topological modeling of lipophilicity, diuretic activity, and carbonic inhibition activity of benzene sulfonamides: a molecular connectivity approach. 2004 , 14, 5661-6		24

200	Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with sulfonamides derived from 4-isothiocyanato-benzolamide. 2004 , 14, 5775-80	45
199	Carbonic anhydrase inhibitors. Interaction of isozymes I, II, IV, V, and IX with phosphates, carbamoyl phosphate, and the phosphonate antiviral drug foscarnet. 2004 , 14, 5763-7	23
198	Experimental and theoretical studies of the dehydration kinetics of two inhibitor-containing half-sandwich cobalt(II) complexes. 2004 , 208, 83-90	2
197	Carbonic anhydrase inhibitors: aromatic and heterocyclic sulfonamides incorporating adamantyl moieties with strong anticonvulsant activity. 2004 , 12, 2717-26	82
196	Theoretical study of gas-phase acidity, pKa, lipophilicity, and solubility of some biologically active sulfonamides. 2004 , 12, 5395-403	53
195	Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with sulfonamides incorporating 1,2,4-triazine moieties. 2004 , 14, 5427-33	90
194	Dehydration kinetic studies of HCO ₃ ⁻ catalyzed by three half-sandwich nickel(II) complexes in the presence of inhibitors NO ₂ ⁻ , N ₃ ⁻ and NCS ⁻ 2004 , 7, 165-168	1
193	Carbonic anhydrase inhibitors: X-ray crystallographic structure of the adduct of human isozyme II with the antipsychotic drug sulpiride. 2004 , 14, 337-41	62
192	Carbonic anhydrase inhibitors: the first selective, membrane-impermeant inhibitors targeting the tumor-associated isozyme IX. 2004 , 14, 869-73	140
191	Carbonic anhydrase inhibitors: X-ray crystallographic structure of the adduct of human isozyme II with a topically acting antiglaucoma sulfonamide. 2004 , 14, 2357-61	46
190	Carbonic anhydrase inhibitors: the first QSAR study on inhibition of tumor-associated isoenzyme IX with aromatic and heterocyclic sulfonamides. 2004 , 14, 3283-90	69
189	Carbonic anhydrase inhibitors. Inhibition of the zinc and cobalt gamma-class enzyme from the archaeon <i>Methanosarcina thermophila</i> with anions. 2004 , 14, 3327-31	14
188	Carbonic anhydrase inhibitors. Inhibition of cytosolic isozyme XIII with aromatic and heterocyclic sulfonamides: a novel target for the drug design. 2004 , 14, 3757-62	36
187	Carbonic anhydrase inhibitors. Inhibition of the beta-class enzyme from the methanoarchaeon <i>Methanobacterium thermoautotrophicum</i> (Cab) with anions. 2004 , 14, 4563-7	47
186	Carbonic anhydrase inhibitors: inhibition of human cytosolic isozyme II and mitochondrial isozyme V with a series of benzene sulfonamide derivatives. 2004 , 14, 5703-7	15
185	Carbonic anhydrase inhibitors: inhibition of the membrane-bound human isozyme IV with anions. 2004 , 14, 5769-73	26
184	Spectroscopic properties, catalytic activities and mechanism studies of [(TpPh)Co(X)(CH ₃ OH) _m]. nCH ₃ OH: bicarbonate dehydration in the presence of inhibitors. 2004 , 109, 281-93	2
183	Effects of leptin and insulin on CA III expression in rat adipose tissue. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2004 , 19, 279-81	5.6 17

182	Therapeutic applications of sulfamates. <i>Expert Opinion on Therapeutic Patents</i> , 2004 , 14, 1273-1308	6.8	29
181	Carbonic anhydrase inhibitors. Design of selective, membrane-impermeant inhibitors targeting the human tumor-associated isozyme IX. 2004 , 47, 2337-47		145
180	Pyridinium cationic lipids in gene delivery: a structure-activity correlation study. 2004 , 47, 3744-54		81
179	Carbonic anhydrase inhibitors: synthesis and topical intraocular pressure lowering effects of fluorine-containing inhibitors devoid of enhanced reactivity. 2004 , 47, 2796-804		32
178	Carbonic anhydrase inhibitors. Inhibition of mitochondrial isozyme V with aromatic and heterocyclic sulfonamides. 2004 , 47, 1272-9		135
177	Modulation of carbonic anhydrase activity and its applications in therapy. <i>Expert Opinion on Therapeutic Patents</i> , 2004 , 14, 667-702	6.8	148
176	Inhibitory effects of ammonia and urea on gill carbonic anhydrase enzyme activity of rainbow trout (<i>Oncorhynchus mykiss</i>). 2004 , 17, 125-8		16
175	Carbonic anhydrase inhibitors. Inhibition of Plasmodium falciparum carbonic anhydrase with aromatic sulfonamides: towards antimalarials with a novel mechanism of action?. 2005 , 13, 483-9		75
174	A physically interpretable quantum-theoretic QSAR for some carbonic anhydrase inhibitors with diverse aromatic rings, obtained by a new QSAR procedure. 2005 , 13, 2197-211		19
173	Carbonic anhydrase inhibitors: inhibition of the human transmembrane isozyme XIV with a library of aromatic/heterocyclic sulfonamides. 2005 , 13, 6089-93		20
172	Carbonic anhydrase inhibitors. Inhibition of isozymes I, II, IV, V, and IX with anions isosteric and isoelectronic with sulfate, nitrate, and carbonate. 2005 , 15, 567-71		30
171	Carbonic anhydrase inhibitors. Interaction of isozymes I, II, IV, V, and IX with carboxylates. 2005 , 15, 573-8		60
170	Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with bis-sulfamates. 2005 , 15, 579-84		41
169	Carbonic anhydrase inhibitors. Inhibition of the membrane-bound human and bovine isozymes IV with sulfonamides. 2005 , 15, 1149-54		29
168	Carbonic anhydrase inhibitors. Inhibition of the human cytosolic isozyme VII with aromatic and heterocyclic sulfonamides. 2005 , 15, 971-6		128
167	Carbonic anhydrase inhibitors. Interaction of isozymes I, II, IV, V, and IX with organic phosphates and phosphonates. 2005 , 15, 1683-6		23
166	Carbonic anhydrase inhibitors. Inhibition of isozymes I, II, IV, V and IX with complex fluorides, chlorides and cyanides. 2005 , 15, 1909-13		18
165	Sulfamates and their therapeutic potential. <i>Medicinal Research Reviews</i> , 2005 , 25, 186-228	14.4	169

164	Carbonic anhydrase inhibitors. Novel sulfanilamide/acetazolamide derivatives obtained by the tail approach and their interaction with the cytosolic isozymes I and II, and the tumor-associated isozyme IX. 2005 , 15, 367-72		48
163	Carbonic anhydrase inhibitors: synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with sulfonamides incorporating thioureido-sulfanyl scaffolds. 2005 , 15, 2359-64		23
162	Carbonic anhydrase inhibitors: novel sulfonamides incorporating 1,3,5-triazine moieties as inhibitors of the cytosolic and tumour-associated carbonic anhydrase isozymes I, II and IX. 2005 , 15, 3102-8		129
161	Carbonic anhydrase inhibitors: inhibition of the human isozymes I, II, VA, and IX with a library of substituted difluoromethanesulfonamides. 2005 , 15, 5192-6		19
160	Effects of nicotine and vitamin E on carbonic anhydrase activity in some rat tissues in vivo and in vitro. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2005 , 20, 103-8	5.6	13
159	Effects of low molecular weight plasma inhibitors of rainbow trout (<i>Oncorhynchus mykiss</i>) on human erythrocyte carbonic anhydrase-II isozyme activity in vitro and rat erythrocytes in vivo. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2005 , 20, 35-9	5.6	83
158	Purification and characterization of carbonic anhydrase from bovine stomach and effects of some known inhibitors on enzyme activity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2005 , 20, 75-80	5.6	6
157	Molecular basis for the origin of differential spectral and binding profiles of dansylamide with human carbonic anhydrase I and II. 2005 , 44, 3673-82		11
156	Carbonic anhydrase inhibitors. The mitochondrial isozyme VB as a new target for sulfonamide and sulfamate inhibitors. 2005 , 48, 7860-6		161
155	A perspective on quantitative structure-activity relationships and carbonic anhydrase inhibitors. 2006 , 2, 113-37		29
154	3D QSAR selectivity analyses of carbonic anhydrase inhibitors: insights for the design of isozyme selective inhibitors. 2006 , 46, 2737-60		28
153	Carbonic anhydrase inhibitors and activators and their use in therapy. <i>Expert Opinion on Therapeutic Patents</i> , 2006 , 16, 1627-1664	6.8	143
152	Carbonic anhydrase inhibitors: Valdecoxib binds to a different active site region of the human isoform II as compared to the structurally related cyclooxygenase II "selective" inhibitor celecoxib. 2006 , 16, 437-42		89
151	Carbonic anhydrase inhibitors: inhibition of the cytosolic human isozyme VII with anions. 2006 , 16, 3139-43		26
150	Therapeutic potential of sulfamides as enzyme inhibitors. <i>Medicinal Research Reviews</i> , 2006 , 26, 767-92	14.4	153
149	The sulfamide motif in the design of enzyme inhibitors. <i>Expert Opinion on Therapeutic Patents</i> , 2006 , 16, 27-47	6.8	65
148	The development of topically acting carbonic anhydrase inhibitors as anti-glaucoma agents. 2007 , 7, 849-54		49
147	Antiobesity carbonic anhydrase inhibitors. 2007 , 7, 879-84		82

146	Therapeutic applications of the carbonic anhydrase inhibitors. 2007 , 4, 355-378		25
145	In vitro inhibitory effects of some heavy metals on human erythrocyte carbonic anhydrases. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2007 , 22, 745-50	5.6	64
144	Analysis of human carbonic anhydrase II: docking reliability and receptor-based 3D-QSAR study. 2007 , 47, 515-25		34
143	The design of inhibitors for medically relevant metalloproteins. 2007 , 2, 152-71		116
142	Carbonic anhydrase inhibitors. Inhibition of transmembrane isozymes XII (cancer-associated) and XIV with anions. 2007 , 17, 1532-7		33
141	Phosph(on)ate as a zinc-binding group in metalloenzyme inhibitors: X-ray crystal structure of the antiviral drug foscarnet complexed to human carbonic anhydrase I. 2007 , 17, 2210-5		45
140	A DFT-based quantum theoretic QSAR study of aromatic and heterocyclic sulfonamides as carbonic anhydrase inhibitors against isozyme, CA-II. 2007 , 26, 701-8		61
139	Incorporating partial matches within multi-objective pharmacophore identification. 2006 , 20, 735-49		21
138	Effects of some metals on carbonic anhydrase from brains of rainbow trout. 2008 , 123, 179-90		39
137	In vitro inhibition of salicylic acid derivatives on human cytosolic carbonic anhydrase isozymes I and II. 2008 , 16, 9101-5		142
136	Carbonic anhydrase inhibitors: inhibition of the beta-class enzymes from the fungal pathogens <i>Candida albicans</i> and <i>Cryptococcus neoformans</i> with simple anions. 2008 , 18, 5066-70		90
135	Carbonic anhydrase inhibitors. Inhibition of the beta-class enzyme from the yeast <i>Saccharomyces cerevisiae</i> with anions. 2008 , 18, 6327-31		44
134	Carbonic anhydrase inhibitors as emerging drugs for the treatment of obesity. 2008 , 13, 383-92		139
133	Carbonic anhydrase as a model for biophysical and physical-organic studies of proteins and protein-ligand binding. 2008 , 108, 946-1051		541
132	Use of 3D QSAR models for database screening: a feasibility study. 2008 , 48, 384-96		24
131	Inhibition of carbonic anhydrase II by thioxolone: a mechanistic and structural study. 2008 , 47, 3174-84		47
130	The development of topically acting carbonic anhydrase inhibitors as antiglaucoma agents. 2008 , 14, 649-54		78
129	Carbonic anhydrase inhibitors. Inhibition of the cytosolic and tumor-associated carbonic anhydrase isozymes I, II and IX with some 1,3,4-oxadiazole- and 1,2,4-triazole-thiols. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2008 , 23, 101-7	5.6	19

128	Are carbonic anhydrase inhibitors suitable for obtaining antiobesity drugs?. 2008 , 14, 655-60	137
127	Drug Design of Antiobesity Carbonic Anhydrase Inhibitors. 241-254	2
126	Antiglaucoma Carbonic Anhydrase Inhibitors as Ophthalmologic Drugs. 139-153	20
125	Theoretical investigation on the molecular structure, Infrared, Raman and NMR spectra of para-halogen benzenesulfonamides, 4-X-C ₆ H ₄ SO ₂ NH ₂ (X = Cl, Br or F). <i>Journal of Molecular Structure</i> , 2009 , 919, 26-33	3-4 44
124	Carbonic anhydrase inhibitors: inhibition of cytosolic carbonic anhydrase isozymes II and VII with simple aromatic sulfonamides and some azo dyes. 2009 , 74, 196-202	9
123	Spectroscopic study on the interaction of celecoxib with human carbonic anhydrase II: thermodynamic characterization of the binding process. 2009 , 97, 161-8	21
122	Carbonic anhydrase inhibitors: inhibition of the beta-class enzyme from the yeast <i>Saccharomyces cerevisiae</i> with sulfonamides and sulfamates. 2009 , 17, 1158-63	78
121	Carbonic anhydrase inhibitors. Inhibition of human erythrocyte isozymes I and II with a series of antioxidant phenols. 2009 , 17, 3207-11	194
120	Carbonic anhydrase inhibitors. Inhibition of the beta-class enzymes from the fungal pathogens <i>Candida albicans</i> and <i>Cryptococcus neoformans</i> with aliphatic and aromatic carboxylates. 2009 , 17, 2654-7	66
119	Carbonic anhydrase inhibitors: the membrane-associated isoform XV is highly inhibited by inorganic anions. 2009 , 19, 1155-8	13
118	Carbonic anhydrase activators: activation of the beta-carbonic anhydrase Nce103 from the yeast <i>Saccharomyces cerevisiae</i> with amines and amino acids. 2009 , 19, 1662-5	16
117	Carbonic anhydrase inhibitors. Inhibition of cytosolic isoforms I, II, III, VII and XIII with less investigated inorganic anions. 2009 , 19, 1855-7	35
116	Carbonic anhydrase inhibitors. Inhibition of the beta-class enzyme from the pathogenic yeast <i>Candida glabrata</i> with anions. 2009 , 19, 4802-5	39
115	Design of a carbonic anhydrase IX active-site mimic to screen inhibitors for possible anticancer properties. 2009 , 48, 1322-31	53
114	NO-releasing esters show carbonic anhydrase inhibitory action against human isoforms I and II. 2010 , 18, 3559-63	57
113	Risk assessment of pesticides and fungicides for acid-base regulation and salt transport in rainbow trout tissues. 2010 , 97, 66-70	33
112	Bidentate Zinc chelators for alpha-carbonic anhydrases that produce a trigonal bipyramidal coordination geometry. 2010 , 5, 1609-15	24
111	Synthesis, characterization, antibacterial activities and carbonic anhydrase enzyme inhibitor effects of new arylsulfonylhydrazones and their Ni(II), Co(II) complexes. 2010 , 75, 121-6	31

110	DFT based computational study on the molecular conformation, NMR chemical shifts and vibrational transitions for N-(2-methylphenyl) methanesulfonamide and N-(3-methylphenyl) methanesulfonamide. <i>Journal of Molecular Structure</i> , 2010 , 968, 108-114	3.4	52
109	Carbonic anhydrase inhibitors. X-ray crystal studies of the carbonic anhydrase II-trithiocarbonate adduct--an inhibitor mimicking the sulfonamide and urea binding to the enzyme. 2010 , 20, 474-8		74
108	Carbonic anhydrase activators: Activation of the beta-carbonic anhydrase from the pathogenic yeast <i>Candida glabrata</i> with amines and amino acids. 2010 , 20, 1701-4		17
107	Carbonic anhydrase inhibitors. Inhibition of transmembrane isoforms IX, XII, and XIV with less investigated anions including trithiocarbonate and dithiocarbamate. 2010 , 20, 1548-50		45
106	Carbonic anhydrase inhibitors: Inhibition of human erythrocyte isozymes I and II with a series of phenolic acids. 2010 , 75, 515-20		114
105	An alternative purification method for human serum paraoxonase 1 and its interactions with sulfonamides. 2010 , 76, 552-8		42
104	Selective inhibition of carbonic anhydrase IX decreases cell proliferation and induces ceramide-mediated apoptosis in human cancer cells. 2010 , 334, 710-9		81
103	3-Chloro-N-(4-sulfamoylphen-yl)propanamide. 2010 , 66, o1559-60		5
102	Drug design studies of the novel antitumor targets carbonic anhydrase IX and XII. 2010 , 17, 1516-26		88
101	Carbonic anhydrase inhibitors: Gd(III) complexes of DOTA- and TETA-sulfonamide conjugates targeting the tumor associated carbonic anhydrase isozymes IX and XII. 2010 , 34, 2139		5
100	Novel N-sulfonamide trans-platinum complexes: synthesis, reactivity and in vitro evaluation. 2011 , 2, 789		22
99	In Vitro inhibition of human carbonic anhydrase I and II isozymes with natural phenolic compounds. 2011 , 77, 494-9		154
98	Carbonic anhydrase inhibitors. Inhibition of the β -class enzymes from the fungal pathogens <i>Candida albicans</i> and <i>Cryptococcus neoformans</i> with branched aliphatic/aromatic carboxylates and their derivatives. 2011 , 21, 2521-6		28
97	In vitro inhibition of β -carbonic anhydrase isozymes by some phenolic compounds. 2011 , 21, 4259-62		158
96	Theoretical improvement of the specific inhibitor of human carbonic anhydrase VII. 2011 , 35, 50-6		7
95	Carbonic anhydrase activities from the rainbow trout lens correspond to the development of acute gas bubble disease. 2011 , 23, 134-9		7
94	Purification of carbonic anhydrase-II from sheep liver and inhibitory effects of some heavy metals on enzyme activity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012 , 27, 795-9	5.6	5
93	Spectroscopic characterization of furosemide binding to human carbonic anhydrase II. <i>International Journal of Biological Macromolecules</i> , 2012 , 50, 910-7	7.9	15

92	Synthesis, cytotoxic activities and cell cycle arrest profiles of half-sandwich N-sulfonamide based dithio-o-carborane metal complexes. 2012 , 20, 4693-700		10
91	Carbonic anhydrase inhibitors: A quantum mechanical study of interaction between some antiepileptic drugs with active center of carbonic anhydrase enzyme. 2012 , 992, 59-69		14
90	Synthesis and characterization of novel dioxoacridine sulfonamide derivatives as new carbonic anhydrase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012 , 27, 509-14	5.6	24
89	Effects of silica nanoparticle supported ionic liquid as additive on thermal reversibility of human carbonic anhydrase II. <i>International Journal of Biological Macromolecules</i> , 2012 , 51, 933-8	7.9	13
88	Synthesis and carbonic anhydrase inhibitory properties of novel bromophenols and their derivatives including natural products: vidalol B. 2012 , 54, 423-8		48
87	Inhibition of carbonic anhydrase IX as a novel anticancer mechanism. 2012 , 3, 98-103		73
86	Multiple binding modes of inhibitors to carbonic anhydrases: how to design specific drugs targeting 15 different isoforms?. 2012 , 112, 4421-68		889
85	Structure-activity relationships for the interaction of 5,10-dihydroindeno[1,2-b]indole derivatives with human and bovine carbonic anhydrase isoforms I, II, III, IV and VI. 2012 , 49, 68-73		49
84	Synthesis and carbonic anhydrase inhibitory properties of novel cyclohexanonyl bromophenol derivatives. 2012 , 22, 1352-7		35
83	Determination of structural and vibrational spectroscopic properties of 2-, 3-, 4-nitrobenzenesulfonamide using FT-IR and FT-Raman experimental techniques and DFT quantum chemical calculations. 2012 , 85, 261-70		19
82	Gold and BINOL-phosphoric acid catalyzed enantioselective hydroamination/N-sulfonyliminium cyclization cascade. 2013 , 15, 4330-3		71
81	Expanding the synthesis of new trans-sulfonamide platinum complexes: cytotoxicity, SAR, fluorescent cell assays and stability studies. 2013 , 127, 128-40		16
80	Insulino-mimetic and anti-diabetic effects of zinc. 2013 , 120, 8-17		66
79	Selective carbonic anhydrase IX inhibitors based on coumarin scaffold as promising antimetastatic agents: WO2012070024. <i>Expert Opinion on Therapeutic Patents</i> , 2013 , 23, 751-6	6.8	13
78	Thermodynamic study of proton transfer in carbonic anhydrase/activator complex: A quantum mechanical approach. 2013 , 1022, 121-129		5
77	Electronic absorption, vibrational spectra, nonlinear optical properties, NBO analysis and thermodynamic properties of N-(4-nitro-2-phenoxyphenyl) methanesulfonamide molecule by ab initio HF and density functional methods. 2013 , 108, 186-96		37
76	Modified B-casein restores thermal reversibility of human carbonic anhydrase II: the salt bridge mechanism. 2013 , 60, 298-304		3
75	Synthesis and Evaluation of New Phthalazine Urea and Thiourea Derivatives as Carbonic Anhydrase Inhibitors. 2013 , 2013, 1-8		9

74	Synthesis and carbonic anhydrase inhibitory effects of novel sulfamides derived from 1-aminoindanes and anilines. <i>Archiv Der Pharmazie</i> , 2014 , 347, 950-7	4-3	75
73	Impact of Sulfonamide Structure on Solubility and Transfer Processes in Biologically Relevant Solvents. 2014 , 59, 4217-4226		17
72	Antipsychotic agents screened as human carbonic anhydrase I and II inhibitors. 2014 , 120, 29-33		11
71	Application of multivariate curve resolution alternating least squares to biomedical analysis using electrochemical techniques at a nanostructure-based modified sensor. 2014 , 130, 271-278		18
70	Synthesis and antimicrobial activity of some new amido/sulfonamido-linked 3,4-disubstituted pyrroles. 2014 , 23, 3287-3297		8
69	New aromatic/heteroaromatic propanesulfonylhydrazone compounds: synthesis, physical properties and inhibition studies against carbonic anhydrase II (CAII) enzyme. 2014 , 128, 452-60		22
68	Facile, highly efficient, and clean one-pot synthesis of acridine sulfonamide derivatives at room temperature and their inhibition of human carbonic anhydrase isoenzymes. 2014 , 145, 1027-1034		25
67	Discovering isozyme-selective inhibitor scaffolds of human carbonic anhydrases using structural alignment and de novo drug design approaches. 2014 , 83, 247-58		2
66	Synthesis and carbonic anhydrase isoenzymes inhibitory effects of brominated diphenylmethanone and its derivatives. <i>Archiv Der Pharmazie</i> , 2014 , 347, 354-9	4-3	63
65	Thermodynamic aspects of solubility and partitioning processes of some sulfonamides in the solvents modeling biological media. 2014 , 69, 56-65		20
64	Efficient Synthesis, Characterization, and Antibacterial Activity of Novel N-Acylsulfonamides and Sulfonylureas. 2014 , 189, 1396-1404		11
63	Carbonic anhydrase inhibitory properties of novel benzylsulfamides using molecular modeling and experimental studies. <i>Bioorganic Chemistry</i> , 2014 , 56, 75-82	5-1	99
62	Synthesis and antibacterial activity of sulfonamides. SAR and DFT studies. <i>Journal of Molecular Structure</i> , 2014 , 1074, 180-185	3-4	52
61	Synthesis and Structure of Some N-(4-Sulfamoylphenyl)Amide Derivatives and the Corresponding Hydrazones. 2015 , 51, 397-401		
60	Carbonic Anhydrase II as Target for Drug Design. 2015 , 51-90		2
59	Amidine Sulfonamides and Benzene Sulfonamides: Synthesis and Their Biological Evaluation. 2015 , 2015, 1-8		12
58	Synthesis and carbonic anhydrase inhibitory properties of novel uracil derivatives. 2015 , 25, 3261-3		24
57	The toxicological impacts of some heavy metals on carbonic anhydrase from gilthead sea bream (<i>Sparus aurata</i>) gills. 2015 , 39, 825-32		13

56	Enhancement of thermal reversibility and stability of human carbonic anhydrase II by mesoporous nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2015 , 75, 67-72	7.9	9
55	Conformational Analysis of Topiramate and Related Anion in the Solution and Interaction Between the Most Stable Conformer of Topiramate with Active Center of Carbonic Anhydrase Enzyme. 2015 , 34, 80-102		5
54	Synthesis of Schiff base derivatives of 4-(2-aminoethyl)-benzenesulfonamide with inhibitory activity against carbonic anhydrase isoforms I, II, IX and XII. 2015 , 25, 2377-81		30
53	Stereoelectronic structure and self-association of N-trimethylsilylsulfonamides RSO ₂ NHSiMe ₃ (R = Me, CF ₃ , Ph). 2015 , 85, 1661-1667		5
52	Interaction of carbonic anhydrase isozymes I, II, and IX with some pyridine and phenol hydrazinecarbothioamide derivatives. 2015 , 25, 5636-41		34
51	Are increased salivary carbonic anhydrase VI levels related to the amount of supragingival dental calculus formation and clinical periodontal scores?. 2015 , 10, 123-127		4
50	Lansoprazole and carbonic anhydrase IX inhibitors synergize against human melanoma cells. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 119-125	5.6	43
49	Degradation products of the artificial azo dye, Allura red, inhibit esterase activity of carbonic anhydrase II: A basic in vitro study on the food safety of the colorant in terms of enzyme inhibition. 2016 , 213, 494-504		18
48	Novel Sulfonamide Derivatives Carrying a Biologically Active 3,4-Dimethoxyphenyl Moiety as VEGFR-2 Inhibitors. 2016 , 64, 1747-1754		5
47	Three-component synthesis and carbonic anhydrase inhibitory properties of novel octahydroacridines incorporating sulfaguanidine scaffold. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 63-69	5.6	3
46	Synthesis and evaluation of sulfonamide-bearing thiazole as carbonic anhydrase isoforms hCA I and hCA II. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 1300-5	5.6	15
45	Synthesis and antibacterial activity of new chiral N-sulfamoyloxazolidin-2-ones. <i>Journal of Chemical Sciences</i> , 2016 , 128, 85-91	1.8	9
44	Experimental and computational approaches of a novel methyl (2E)-2-[[N-(2-formylphenyl)(4-methylbenzene)sulfonamido]methyl]-3-(4-chlorophenyl)prop-2-enoate: A potential antimicrobial agent and an inhibition of penicillin-binding protein. <i>Journal of Molecular Structure</i> , 2016 , 1115, 33-54	3.4	15
43	The synthesis of (Z)-4-oxo-4-(arylamino)but-2-enoic acids derivatives and determination of their inhibition properties against human carbonic anhydrase I and II isoenzymes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 939-45	5.6	15
42	Triple-edged therapy targeting intracellular alkalosis and extracellular acidosis in cancer. 2017 , 43, 139-146		11
41	Captopril/enalapril inhibit promiscuous esterase activity of carbonic anhydrase at micromolar concentrations: An in vitro study. 2017 , 265, 24-35		7
40	Recent developments in the synthesis and biological activity of acridine/acridone analogues. 2017 , 7, 15776-15804		89
39	Carbohydrazones as new class of carbonic anhydrase inhibitors: Synthesis, kinetics, and ligand docking studies. <i>Bioorganic Chemistry</i> , 2017 , 72, 89-101	5.1	20

38	Synthesis of 3-chloro-1-substituted aryl pyrrolidine-2,5-dione derivatives: discovery of potent human carbonic anhydrase inhibitors. 2017 , 26, 1619-1627		19
37	Synthesis of new dihydropyrrol-2-one derivatives bearing sulfonamide groups and studies their antibacterial activity. 2017 , 148, 1025-1034		3
36	Carbonic anhydrase inhibitory properties of phenolic sulfonamides derived from dopamine related compounds. 2017 , 10, 398-402		47
35	One Pot Synthesis of Some Novel Sulfonamide Derivatives Containing -NH ₂ Group: Spectral Characterization and Biological Evaluation. 2017 , 07,		1
34	Enhancement of intrinsic fluorescence of human carbonic anhydrase II upon topiramate binding: Some evidence for drug-induced molecular contraction of the protein. <i>International Journal of Biological Macromolecules</i> , 2018 , 108, 240-249	7.9	10
33	Mechanistic investigation of sulfonamide ligands as human carbonic anhydrase II inhibitors. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 1198-1207	7.9	11
32	Sublimation thermodynamics aspects of adamantane and memantine derivatives of sulfonamide molecular crystals. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 19784-19791	3.6	8
31	Structural and energetic aspects of adamantane and memantine derivatives of sulfonamide molecular crystals: experimental and theoretical characterisation. <i>CrystEngComm</i> , 2018 , 20, 3476-3489	3.3	14
30	In vitro effect of carbonic anhydrase inhibitor acetazolamide on cell viability, migration and colony formation of colorectal cancer cells. <i>Biologia (Poland)</i> , 2018 , 73, 621-628	1.5	2
29	New organotin(IV) chlorides derived from N-(2-hydroxyphenyl)aryloxy sulfamates. Synthesis, characterization and DSC investigation. <i>Journal of Chemical Sciences</i> , 2019 , 131, 1	1.8	1
28	Synthesis of 5-methyl-2,4-dihydro-3H-1,2,4-triazole-3-one@ aryl Schiff base derivatives and investigation of carbonic anhydrase and cholinesterase (AChE, BuChE) inhibitory properties. <i>Bioorganic Chemistry</i> , 2019 , 86, 705-713	5.1	26
27	Synthesis of sulfonamide, amide and amine hybrid pharmacophore, an entry of new class of carbonic anhydrase II inhibitors and evaluation of chemo-informatics and binding analysis. <i>Bioorganic Chemistry</i> , 2019 , 86, 624-630	5.1	5
26	1-(2-Hydroxy-5-((trimethylsilyl)ethynyl)phenyl)ethanone based π -unsaturated derivatives an alternate to non-sulfonamide carbonic anhydrase II inhibitors, synthesis via Sonogashira coupling, binding analysis, Lipinski rule validation. <i>Bioorganic Chemistry</i> , 2019 , 84, 170-176	5.1	4
25	Design, synthesis and biological evaluation of carbohydrate-based sulphonamide derivatives as topical antiglaucoma agents through selective inhibition of carbonic anhydrase II. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020 , 35, 383-390	5.6	11
24	Evaluation of Anticancer Activities of Novel Facile Synthesized Calix[n]arene Sulfonamide Analogs. <i>Applied Biochemistry and Biotechnology</i> , 2020 , 190, 1484-1497	3.2	8
23	Progress in the development of human carbonic anhydrase inhibitors and their pharmacological applications: Where are we today?. <i>Medicinal Research Reviews</i> , 2020 , 40, 2485-2565	14.4	73
22	The computational quantum mechanical study of sulfamide drug adsorption onto XY fullerene-like nanocages: detailed DFT and QAIM investigations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 39, 5427-5437	3.6	37
21	Design and development of 5-(4H)-oxazolones as potential inhibitors of human carbonic anhydrase VA: towards therapeutic management of diabetes and obesity. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020 , 1-11	3.6	5

20	Carbonic anhydrase enzyme inhibition and biological activities of <i>Satureja hortensis</i> L. essential oil. <i>Industrial Crops and Products</i> , 2020 , 156, 112849	5.9	5
19	Synthesis and biological evaluation of Val-Val dipeptide-sulfonamide conjugates. <i>Archiv Der Pharmazie</i> , 2020 , 353, e2000074	4.3	4
18	Synthesis Crystal Structure and Spectral Properties of New Sulfonamides. <i>Journal of Chemical Crystallography</i> , 2021 , 51, 543	0.5	2
17	Convergent synthesis of carbonic anhydrase inhibiting bi-heterocyclic benzamides: Structure-activity relationship and mechanistic explorations through enzyme inhibition, kinetics, and computational studies. <i>Journal of Heterocyclic Chemistry</i> , 2021 , 58, 1089-1103	1.9	1
16	Synthesis and biological evaluation of some 1-naphthol derivatives as antioxidants, acetylcholinesterase, and carbonic anhydrase inhibitors. <i>Archiv Der Pharmazie</i> , 2021 , 354, e2100113	4.3	6
15	New Carboxamid ligand and its metal complexes containing sulfonamide group: Synthesis, Characterization, DNA cleavage and antimicrobial activity. <i>Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi</i> , 2021 , 14, 724-736	0.2	0
14	Exploration of carbonic anhydrase inhibition of bioactive metabolites from <i>Pistacia integerrima</i> by molecular docking and first-principles investigations. <i>Journal of Saudi Chemical Society</i> , 2021 , 25, 101324	4.3	1
13	Designing novel anticancer sulfonamide based 2,5-disubstituted-1,3,4-thiadiazole derivatives as potential carbonic anhydrase inhibitor. <i>Journal of Molecular Structure</i> , 2021 , 1246, 131145	3.4	5
12	Carbonic Anhydrase I. 2015 , 31-49		1
11	Carbonic anhydrase isozymes IX and XII in gastric tumors. <i>World Journal of Gastroenterology</i> , 2003 , 9, 1398-403	5.6	65
10	Mechanisms. 2004 ,		
9	Molecular Docking and Quantum Chemical Computations of 4-Chloro-2-[(furan-2-ylmethyl)amino]-5-sulfamoylbenzoic Acid Based on Density Functional Theory. <i>Polycyclic Aromatic Compounds</i> , 1-24	1.3	
8	Crystal structure, Hirshfeld surface, and DFT studies of 4-((pyrrolidin-1-ylsulfonyl)methyl)aniline. <i>European Journal of Chemistry</i> , 2021 , 12, 419-431	0.6	
7	Carbonic anhydrase inhibition and antioxidant activity of the axially naphthoxazin group substituted silicon phthalocyanines. <i>Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi</i> ,		
6	Click chemistry-based synthesis of new benzenesulfonamide derivatives bearing triazole ring as selective carbonic anhydrase II inhibitors. <i>Drug Development Research</i> ,	5.1	1
5	Biological activity and molecular docking studies of some N-phenylsulfonamides against cholinesterases and carbonic anhydrase isoenzymes. <i>Journal of Molecular Recognition</i> ,	2.6	1
4	Synthesis, Biological Evaluation, and In Silico Studies of Novel Coumarin-Based 4H,5H-pyrano[3,2-c]chromenes as Potent β -Glucuronidase and Carbonic Anhydrase Inhibitors. 2022 , 7, 28605-28617		
3	Biological Evaluation of Platinum(II) Sulfonamido Complexes: Synthesis, Characterization, Cytotoxicity, and Biological Imaging. 2022 , 2022, 1-13		1

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